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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/731,882	12/09/2003	James Rohl	279.630US1	6739
	7590 12/09/201 N, LUNDBERG & WC	EXAMINER		
P.O. BOX 2938	,	NGUYEN, PHONG H		
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3724	
			NOTIFICATION DATE	DELIVERY MODE
			12/09/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/731,882	ROHL ET AL.			
Office Action Summary	Examiner	Art Unit			
	PHONG H. NGUYEN	3724			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 28 Se	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 10-12 and 53-66 is/are pending in the 4a) Of the above claim(s) 53-56 and 58-63 is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 10-12,57 and 64-66 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	re withdrawn from consideration.				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examine 11).	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P	ate			
Paper No(s)/Mail Date 6) Other:					

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DETAILED ACTION

Drawings

1. The Applicant is suggested to provide a three dimensional view of Fig. 7B for better illustrating the invention.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 10, 12, 64 and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over the Tsubota (5,361,660) in view of Dunwoody et al. (5,678,439), hereinafter Dunwoody.

Tsubota discloses placing sheet A between punch 3 and die 7, 11; die hole is in the center of element 7, through which punch 3 passes; delivering lubricant via element 21 as shown in figure 1; actuating the punch as shown in figure 2; the element A in figure 2, which is shown passing through elements 7 and 11 is considered to be an electrode layer for a flat capacitor; the sheet is aluminum as disclosed in column 4, line 31; aluminum sheets inherently have an aluminum oxide portion due to the sheets exposure to air as evidenced by Frank et al (2,854,074) in column 1, line 27-29; the portions of the aluminum sheet that are exposed to air and have aluminum oxide on them are considered to be distinct portions; the aluminum portion of the sheet is considered to be a distinct aluminum portion; the lubricant is concentrated on the

periphery of the die hole where the punch cuts through the aluminum portion as shown in figure 1, and each location about the periphery of the die hole is considered to be a specific predetermined location on the periphery of the die hole.

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Tsubota does not teach the die hole having a lubricant dam having a ridge extending around a periphery of an open upper end of the die hole, the ridge having an opening to the interior of the die hole and a reservoir behind the ridge; and delivering a lubricant to the lubricant dam by an opening on the dam.

Dunwoody teaches a die hole having a lubricant dam having a ridge extending around a periphery of an open upper end of the die hole, the ridge having an opening 50 to the interior of the die hole and a reservoir 30 behind the ridge 40; and delivering a lubricant to the lubricant dam by an opening 60 for cooling, washing and lubricating. See Fig. 1.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to incorporate a lubricant dam as taught by Dunwoody to the Tsubota's die for delivering lubricant to a workpiece to reduce heat.

Regarding the limitation of an opening on the ridge, see element 50 Fig. 1 in Dunwoody.

4. Claims 11 and 66 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubota (5,361,660) in view of Dunwoody et al. (5,678,439), hereinafter Dunwoody as applied to claims 10 and 65 above, and further in view of Klint et al (3,288,715), hereafter Klint.

Tsubota discloses everything as noted above, but does not disclose delivering a partially fluorinated fluid, however, Klint teaches delivering a partially fluorinated fluid in column 2, lines 2-4.

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Therefore, it would have been obvious to one skilled in the art at the time the invention was made to deliver a partially fluorinated fluid in Tsubota as taught by Klint in order to obtain a bright surface on the fabricated aluminum.

5. Claim 57 is rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubota (5,361,660) in view of Dunwoody et al. (5,678,439), hereinafter Dunwoody as applied to claim 10 above, and further in view of 3M.

Tsubota discloses everything, but the partially fluorinated fluid is not Fluorinert fluid, however, 3M teaches the advantages of delivering Fluorinert fluid.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to deliver a Fluorinert fluid in Tsubota and Klint as taught by 3M in order to use a lubricant that does not contribute to ground-level smog formation.

Response to Arguments

- 6. Applicant's arguments with respect to drawing objection and 35 USC 112 rejection have been fully considered and are persuasive. The drawing objection and the 35 USC 112 rejection have been withdrawn.
- 7. Applicant's arguments with respect to claim 10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

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8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to PHONG H. NGUYEN whose telephone number is (571)272-

4510. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Boyer Ashley can be reached on 571-272-4502. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Phong H Nguyen/ Examiner, Art Unit 3724

December 6, 2010